

CHRISTOPHER S. YOO

University of Pennsylvania Law School
3501 Sansom Street
Philadelphia, Pennsylvania 19104-6204
(215) 746-8772 (o)
(215) 573-2025 (f)
csyoo@law.upenn.edu
<http://www.law.upenn.edu/faculty/csyoo/>

PERMANENT ACADEMIC APPOINTMENTS

UNIVERSITY OF PENNSYLVANIA, Philadelphia, Pennsylvania

John H. Chestnut Professor, Law School	2011–present
Professor, Law School	2007–2011
Professor, Annenberg School for Communication (secondary appointment)	2007–present
Professor, Department of Computer and Information Science, School of Engineering and Applied Science (secondary appointment)	2010–present
Founding Director, Center for Technology, Innovation and Competition	2007–present
Faculty Co-Director, Law and Technology Joint Degree Program	2013–present
Faculty Affiliate, Warren Center in Network and Data Sciences	2013–present
Faculty Affiliate, Penn-Wharton Public Policy Initiative	2013–present
Faculty Affiliate, James Joo-Jin Kim Program in Korean Studies	2012–present

Courses: Internet Law, Telecommunications Law, Privacy, Antitrust, Global Antitrust, Technology and Policy, Introduction to Intellectual Property Law and Policy, Copyright Theory, Comparative U.S. and European Telecommunications Law, Law and Innovation Scholarship Colloquium, Emerging Technologies.

VANDERBILT UNIVERSITY, Nashville, Tennessee

Professor of Law	2005–2007
Associate Professor of Law	2002–2005
Assistant Professor of Law	1999–2002
Founding Director, Technology and Entertainment Law Program	2005–2007

Courses: Telecommunications Law, Intellectual Property, Antitrust, Legal Process and the Institutions of Lawmaking, Copyright Theory Seminar, Mass Media Law Seminar, Advanced Technology and Entertainment Law Seminar, Comparative Legal Institutions, Advanced Issues in Free Speech Seminar

VISITING ACADEMIC APPOINTMENTS

FREE UNIVERSITY OF BERLIN, Berlin, Germany	Spring 2015, Spring 2018, Spring 2019
UNIVERSITY OF TOKYO, Tokyo, Japan	Summer 2017
UNIVERSITY OF SYDNEY, Sydney, Australia	Summer 2016
THAMMASAT UNIVERSITY, Bangkok, Thailand	Summer 2016
TSINGHUA UNIVERSITY, Beijing, China	Spring 2015
DUKE-GENEVA INSTITUTE IN TRANSNATIONAL LAW, Geneva, Switzerland	Summer 2014
TECHNISCHE UNIVERSITÄT DRESDEN, Dresden, Germany	Fall 2011–Spring 2012
SEOUL NATIONAL UNIVERSITY, Seoul, Korea	Summer 2011
GOETHE UNIVERSITY, Frankfurt, Germany	Spring 2011
WASEDA LAW SCHOOL, Tokyo, Japan	Summer 2010
UNIVERSITY OF PENNSYLVANIA, Philadelphia, Pennsylvania	Spring 2006
VANDERBILT IN VENICE PROGRAM, Venice, Italy	Summer 2005

OTHER LEGAL EMPLOYMENT

HOGAN & HARTSON (now HOGAN LOVELLS), Washington, D.C.	1998–1999
Associate, Appellate Group (headed by John G. Roberts, Jr.)	1996–1997
SUPREME COURT OF THE UNITED STATES, Washington, D.C.	1997–1998
Law Clerk, Chambers of the Honorable Anthony M. Kennedy	
UNITED STATES COURT OF APPEALS FOR THE D.C. CIRCUIT, Washington, D.C.	1995–1996
Law Clerk, Chambers of the Honorable A. Raymond Randolph	
Part-Time Legal Employment	
U.S. DEPARTMENT OF JUSTICE, Antitrust Division, Chicago, Illinois	Summer 1995
U.S. ATTORNEY'S OFFICE, Northern District of Illinois, Chicago, Illinois	Fall 1994
SIDLEY & AUSTIN, Chicago, Illinois, and Washington, D.C.	Summer 1994
FOLEY & LARDNER, Chicago, Illinois	Summer 1993

EDUCATION

J.D. <i>magna cum laude</i> , NORTHWESTERN UNIVERSITY SCHOOL OF LAW, Chicago, Illinois	1995
John Paul Stevens Prize (for graduating first in class)	
Lowden-Wigmore Prize (for best law review note or comment)	
Associate Articles Editor, <i>Northwestern University Law Review</i>	
National Moot Court Team	
Order of the Coif	

M.B.A., ANDERSON SCHOOL AT UCLA, Los Angeles, California 1991

Sigoloff Fellowship (for leadership and academic excellence)
Beta Gamma Sigma honors society
Teaching Assistant, Operations Management
President, Asian Management Students Association
Mentor of the Year, Riordan Minority Mentorship Program

A.B. *cum laude*, HARVARD UNIVERSITY, Cambridge, Massachusetts 1986

National Merit Scholar
Deans' List all four years
Course Assistant, Introductory Calculus

PUBLICATIONS

Books

100. THE DYNAMIC INTERNET: HOW TECHNOLOGY, USERS, AND BUSINESSES ARE TRANSFORMING THE NETWORK (AEI Press 2012).

Translated into Japanese as ICT実務のためのインターネット政策論の基礎知識 新刊 (Basic knowledge of Internet policy theory for practical ICT) (Takashi Hatae & Yuma Kotake translators, Keiso Shobo August 10, 2017).

99. NETWORKS IN TELECOMMUNICATIONS: ECONOMICS AND LAW (Cambridge University Press 2009) (with Daniel F. Spulber).
98. THE UNITARY EXECUTIVE: PRESIDENTIAL POWER FROM WASHINGTON TO BUSH (Yale University Press 2008) (with Steven G. Calabresi).

Edited Volumes

97. REGULATING THE CLOUD: POLICY FOR COMPUTING INFRASTRUCTURE (MIT Press 2015) (coedited with Jean-François Blanchette).
96. CRITICAL CONCEPTS IN INTELLECTUAL PROPERTY LAW: COPYRIGHT, 2 volumes (Edward Elgar Publishing August 2011).

Special Journal Issues

95. *Network Neutrality: Interdisciplinary and Global Perspectives*, 3 COMMUNICATIONS AND CONVERGENCE REVIEW 1–100 (June 2011).

94. *Rough Consensus and Running Code: Integrating Engineering Principles into Internet Policy Debates*, 63 FEDERAL COMMUNICATIONS LAW JOURNAL 341–506 (March 2011).
93. *The Enduring Lessons of the Breakup of AT&T: A Twenty-Five Year Retrospective*, 61 FEDERAL COMMUNICATIONS LAW JOURNAL 1–227 (December 2008).

Book Chapters

92. *Self-Actualization and the Need to Create as a Limit on Copyright*, in COMPARATIVE ASPECTS OF LIMITATIONS AND EXCEPTIONS IN COPYRIGHT LAW (Shyamkrishna Balganesh, Wee Loon Ng-Loy, & Haochen Sun eds., Cambridge University Press forthcoming 2019).
91. *Network Neutrality and 5G*, in THE FUTURE OF THE INTERNET – INNOVATION, INTEGRATION AND SUSTAINABILITY (Guenter Knieps & Volcker Stocker eds., Nomos forthcoming 2019) (with Jesse Lambert).
90. *Internet Decentralization and Its Discontents*, in THE GLOBAL INTERNET GOVERNANCE IN TRANSITION (Eli M. Noam, Raul Katz, & Lorenzo Maria Pupillo eds., forthcoming 2019).
89. *The Emerging Internet of Things: Opportunities and Challenges for Privacy and Security*, in THE GOVERNANCE OF CYBERSPACE IN THE DIGITAL ECONOMY (Aaron Shull ed., Centre for International Governance Innovation forthcoming 2019).
88. *Product Differentiation*, in 1 RESEARCH HANDBOOK ON THE ECONOMICS OF INTELLECTUAL PROPERTY LAW (Ben Depoorter & Peter Menell eds., Edward Elgar forthcoming 2019).
87. *Free or Fee?: The Economics of Advertising Support vs. Direct Payments for Media Content*, in MEDIA MARKETS AND COMPETITION LAW (Antonio Bavasso, Douglas H. Ginsburg, & David S. Evans eds., Competition Policy International forthcoming 2019).
86. *Antitrust Enforcement in a Global Context: The U.S. Perspective*, in ANTITRUST PROCEDURAL FAIRNESS (D. Daniel Sokol & Andrew Guzman eds., Oxford University Press forthcoming 2019) (with Hendrik M. Wendland).
85. *Legal Mechanisms for Governing the Transition of Key Domain Name Functions to the Global Multi-Stakeholder Community*, in 2 WHO RUNS THE INTERNET?: THE GLOBAL MULTI-STAKEHOLDER MODEL OF INTERNET GOVERNANCE 67–77 (Centre on International Governance Innovation & Chatham House 2017) (with Aaron Shull & Paul Twomey).
84. *When Are Two Networks Better than One?: Toward a Theory of Optimal Fragmentation*, in 1 A UNIVERSAL INTERNET IN A BORDERED WORLD: RESEARCH ON FRAGMENTATION, OPENNESS AND INTEROPERABILITY 127–135 (Centre on International Governance Innovation & Chatham House 2016).

83. *Telecommunications and the Internet: TTIP's Digital Dimension*, in *RULE-MAKERS OR RULE-TAKERS? EXPLORING THE TRANSATLANTIC TRADE AND INVESTMENT PARTNERSHIP* 371–421 (Jacques Pelkmans & Daniel S. Hamilton eds., Rowman & Littlefield International 2015) (with Andrea Renda).
82. *Cloud Computing, Contractibility, and Network Architecture*, in *COMPUTING IN THE CLOUD: AN INTERDISCIPLINARY ANALYSIS* 115–133 (Christopher S. Yoo & Jean-Francois Blanchette eds., MIT Press 2015).
81. *Cyber Espionage or Cyber War?: International Law, Domestic Law, and Self-Protective Measures*, in *CYBERWAR: LAW AND ETHICS FOR VIRTUAL CONFLICTS* 175–194 (Jens David Ohlin, Claire Finkelstein, & Kevin Govern eds., Oxford University Press 2015).
80. *Antitrust, the Internet, and the Economics of Networks*, in *OXFORD HANDBOOK OF INTERNATIONAL ANTITRUST ECONOMICS* 380–403 (Roger D. Blair & D. Daniel Sokol eds., Oxford University Press 2014) (with Daniel F. Spulber).
79. *The Impact of Codification on the Judicial Development of Copyright*, in *INTELLECTUAL PROPERTY AND THE COMMON LAW* 177–210 (Shyamkrishna Balganesch ed., Cambridge University Press 2013).
78. *The NEBULA Future Internet Architecture*, in *THE FUTURE INTERNET – FUTURE INTERNET ASSEMBLY 2013: VALIDATED RESULTS AND NEW HORIZONS* 16–26 (Lecture Notes in Computer Science, vol. 7858, Alex Galls & Anastasius Gavras eds., Springer 2013) (with Tom Anderson, Ken Birman, Robert Broberg, Matthew Caesar, Douglas Comer, Chase Cotton, Michael Freedman, Andreas Haeberlen, Zack Ives, Arvind Krishnamurthy, William Lehr, Boon Thau Loo, David Mazières, Antonio Nicolosi, Jonathan Smith, Ion Stoica, Robbert van Renesse, Michael Walfish, and Hakim Weatherspoon).
77. *Network Neutrality and the Need for a Technological Turn in Internet Scholarship*, in *ROUTLEDGE HANDBOOK OF MEDIA LAW* 539–555 (Monroe E. Price, Stefaan G. Verhulst, & Libby Morgan eds., Routledge 2012).
76. *New Technologies and Constitutional Law*, in *ROUTLEDGE HANDBOOK OF CONSTITUTIONAL LAW* 485–494 (Mark Tushnet, Thomas Fleiner, & Cheryl Saunders eds., Routledge 2013) (with Thomas Fetzer).
75. *Internet Policy Going Forward: Does One Size Still Fit All?*, in *COMMUNICATIONS LAW AND POLICY IN THE DIGITAL AGE: THE NEXT FIVE YEARS* 51–65 (Randolph J. May ed., Carolina Academic Press 2012).
74. *Introduction*, in *CRITICAL CONCEPTS IN INTELLECTUAL PROPERTY LAW: COPYRIGHT* ix–xxii (Christopher S. Yoo ed., Edward Elgar Publishing 2011).

73. *Network Neutrality after Comcast: Toward a Case-by-Case Approach to Reasonable Network Management*, in *NEW DIRECTIONS IN COMMUNICATIONS POLICY* 55–84 (Randolph J. May ed., Carolina Academic Press 2009).
72. *Network Neutrality and Competition Policy: A Complex Relationship*, in *NET NEUTRALITY OR NET NEUTERING: SHOULD BROADBAND INTERNET SERVICES BE REGULATED?* 25–71 (Thomas M. Lenard & Randolph J. May eds., Springer 2006).
71. *Towards a Differentiated Products Theory of Copyright*, in *DEVELOPMENTS IN THE ECONOMICS OF COPYRIGHT: RESEARCH AND ANALYSIS* 103–119 (Lisa N. Takeyama, Wendy J. Gordon, & Ruth Towse eds., Edward Elgar Publishing 2005).
70. *The Unfulfilled Promise of Korean Telecommunications Reform*, in *LEGAL REFORM IN KOREA* 169–198 (Tom Ginsburg ed., RoutledgeCurzon 2004).

Articles in Academic Journals

69. “Everything Not Forbidden Is Permitted”: *A U.S. Perspective on Regulation and Innovation*, 10 *JOURNAL OF LAW & ECONOMIC REGULATION* (forthcoming 2019).
68. *The Transformation of Transformative Use: The Infiltration of Functionality into Copyright*, 1 *JOURNAL OF LAW AND INNOVATION* (forthcoming 2019).
67. *Copyright and Personhood Revisited*, 2019 *UNIVERSITY OF ILLINOIS LAW REVIEW* (forthcoming).
66. *James Wilson as the Architect of the American Presidency*, 16 *GEORGETOWN JOURNAL OF LAW AND PUBLIC POLICY* (forthcoming 2019).
65. *Paul Baran, Network Theory, and the Past, Present, and Future of Internet*, 17 *COLORADO TECHNOLOGY LAW JOURNAL* (forthcoming 2019).
64. *Common Carriage’s Domain*, 35 *YALE JOURNAL ON REGULATION* 991–1026 (2018).
63. *An Unsung Success Story: A Forty-Year Retrospective on U.S. Communications Policy*, 41 *TELECOMMUNICATIONS POLICY* 891–903 (November 2017).
62. *Avoiding the Pitfalls of Net Uniformity: Zero Rating and Nondiscrimination*, 50 *REVIEW OF INDUSTRIAL ORGANIZATION* 509–536 (June 2017).
61. *Wireless Network Neutrality: Technological Challenges and Policy Implications*, 31 *BERKELEY TECHNOLOGY LAW JOURNAL* 1409–1458 (2016).
60. *Open Source, Modular Platforms, and the Challenge of Fragmentation*, 1 *CRITERION JOURNAL ON INNOVATION* 619–647 (2016).

59. *Presidential Signing Statements: A New Perspective*, 163 UNIVERSITY OF PENNSYLVANIA LAW REVIEW 1803–1834 (August 2016).
58. *Introduction: The Bounds of Executive Discretion in the Regulatory State*, 163 UNIVERSITY OF PENNSYLVANIA LAW REVIEW 1587–1606 (June 2016) (with Cary Coglianese).
57. *Telecommunications: Competition Policy in the Telecommunications Space*, 85 MISSISSIPPI LAW JOURNAL 779–819 (2016) (with Gene Kimmelman, Maureen K. Ohlhausen, Michael O’Rielly, and Stephen F. Williams).
56. *Modularity Theory and Internet Policy*, 2016 UNIVERSITY OF ILLINOIS LAW REVIEW 1–62.
55. *Moore’s Law, Metcalfe’s Law, and Optimal Interoperability*, 14 COLORADO TECHNOLOGY LAW JOURNAL 87–102 (2015).
54. *An Analysis of the “Terminating Access Monopoly” Concept*, 14 COLORADO TECHNOLOGY LAW JOURNAL 21–36 (2015) (with Jonathan Nuechterlein).
53. *Wickard for the Internet?: Network Neutrality After Verizon v. FCC*, 66 FEDERAL COMMUNICATIONS LAW JOURNAL 415–466 (June 2014).
52. *Merger Review by the Federal Communications Commission: Comcast-NBC Universal*, 45 REVIEW OF INDUSTRIAL ORGANIZATION 295–321 (November 2014).
51. *A Brief Overview of the NEBULA Future Internet Architecture*, ACM SIGCOMM COMPUTER COMMUNICATIONS REVIEW, July 2014, at 81–86 (with Tom Anderson, Ken Birman, Robert Broberg, Matthew Caesar, Douglas Comer, Chase Cotton, Michael J. Freedman, Andreas Haeberlen, Zachary G. Ives, Arvind Krishnamurthy, William Lehr, Boon Thau Loo, David Mazières, Antonio Nicolosi, Jonathan M. Smith, Ion Stoica, Robbert van Renesse, Michael Walfish, and Hakim Weatherspoon).
50. *Possible Paradigm Shifts in Broadband Policy*, 9 I/S: A JOURNAL OF LAW AND POLICY FOR THE INFORMATION SOCIETY 367–396 (Winter 2014) (keynote address).
49. *Technological Determinism and Its Discontents*, 127 HARVARD LAW REVIEW 914–949 (January 2014) (reviewing SUSAN CRAWFORD, CAPTIVE AUDIENCE (2013)).
48. *Is There a Role for Common Carriage in an Internet-Based World?*, 51 HOUSTON LAW REVIEW 545–608 (2013).

Reprinted as *The Questionable Call for Common Carriage: Is There a Role for Common Carriage in an Internet-Based World?*, REGULATION, Summer 2014, at 2.

47. *Protocol Layering and Internet Policy*, 161 UNIVERSITY OF PENNSYLVANIA LAW REVIEW 1707–1771 (May 2013).
46. *The Wires Go to War: The U.S. Experiment with Government Ownership of the Telephone System During World War I*, 91 TEXAS LAW REVIEW 983–1050 (April 2013) (with Michael A. Janson).
45. *When Antitrust Met Facebook*, 19 GEORGE MASON LAW REVIEW 1147–1162 (Summer 2012).
44. *Beyond Coase: Property Theory and Emerging Technologies*, 160 UNIVERSITY OF PENNSYLVANIA LAW REVIEW 2189–2225 (June 2012).
43. *Are Those Who Ignore History Doomed to Repeat It?*, 78 UNIVERSITY OF CHICAGO LAW REVIEW 1627–1685 (Fall 2011) (with Peter Decherney & Nathan Ensmenger) (reviewing TIM WU, THE MASTER SWITCH (2010)).
42. *Technologies of Control and the Future of the First Amendment*, 53 WILLIAM & MARY LAW REVIEW 747–775 (November 2011).
41. *Deregulation vs. Reregulation: The Clash of Conflicting Paradigms*, 36 JOURNAL OF CORPORATION LAW 847–867 (Summer 2011).

Reprinted as *A Clash of Regulatory Paradigms: When Should Policymakers Promote Competition, and When Should They Accept and Regulate Monopoly?*, REGULATION, Fall 2012, at 42–49.
40. *Introduction to Special Theme Issue*, 3 COMMUNICATIONS AND CONVERGENCE REVIEW 1–6 (June 2011).
39. *Cloud Computing: Architectural and Policy Implications*, 38 REVIEW OF INDUSTRIAL ORGANIZATION 405–421 (June 2011).

Published with commentary by Michael Salinger, *Discussion of Papers by Bruce Owen and Christopher Yoo*, 38 REVIEW OF INDUSTRIAL ORGANIZATION 435–440 (June 2011).
38. *Promoting the Buildout of New Networks vs. Compelling Access to the Monopoly Loop: A Clash of Regulatory Paradigms*, 4 JOURNAL OF LAW & ECONOMIC REGULATION 7–32 (May 2011).
37. *Rough Consensus and Running Code: Integrating Engineering Principles into Internet Policy Debates*, 63 FEDERAL COMMUNICATIONS LAW JOURNAL 341–356 (March 2011).

36. *The Changing Patterns of Internet Usage*, 63 FEDERAL COMMUNICATIONS LAW JOURNAL 67–89 (December 2010).

Preliminary version published online as *The Challenge of New Patterns of Internet Usage*, in THE FUTURE OF DIGITAL COMMUNICATIONS: TECHNICAL PERSPECTIVES 22–37 (Fall 2010), <http://www.twcresearchprogram.com/pdf/TWC%20Technical.pdf>.

35. *Is the Internet a Maturing Market? If So, What Does That Imply?*, COMMUNICATIONS OF THE ACM, August 2010, at 24–26.

34. *Product Life Cycle Theory and the Maturation of the Internet*, 104 NORTHWESTERN UNIVERSITY LAW REVIEW 641–670 (Spring 2010).

33. *Free Speech and the Myth of the Internet as an Unintermediated Experience*, 78 GEORGE WASHINGTON LAW REVIEW 697–773 (June 2010).

Reprinted as *Libertad de expresión y el mito de Internet como una experiencia no intermediada*, 2 REVISTA CHILENA DE DERECHO Y TECNOLOGÍA 11–111 (2013).

Excerpted in VINCENT BLASI, IDEAS OF THE FIRST AMENDMENT 630–633 (2d ed. West Academic Publishing 2012).

Reprinted in ENTERTAINMENT, PUBLISHING AND THE ARTS HANDBOOK 249–325 (Karen B. Tripp ed., 2011 ed., West Academic Publishing 2011).

32. *Foreword to Symposium on Presidential Power in Historical Perspective: Reflections on Calabresi & Yoo's The Unitary Executive*, 11 UNIVERSITY OF PENNSYLVANIA JOURNAL OF CONSTITUTIONAL LAW 241–250 (February 2010).

31. *Innovations in the Internet's Architecture that Challenge the Status Quo*, 8 JOURNAL ON TELECOMMUNICATIONS AND HIGH TECHNOLOGY LAW 79–99 (Winter 2010).

Reprinted as *Network Neutrality or Internet Innovation?*, REGULATION, Spring 2010, at 22–29.

30. *The Convergence of Broadcasting and Telephony: Legal and Regulatory Implications*, 1 COMMUNICATIONS AND CONVERGENCE REVIEW 44–55 (November 2009).

29. *Nonrivalry and Price Discrimination in Copyright Economics*, 157 UNIVERSITY OF PENNSYLVANIA LAW REVIEW 1801–1830 (May 2009) (with John P. Conley).

28. *The Enduring Lessons of the Breakup of AT&T: A Twenty-Five Year Retrospective*, 61 FEDERAL COMMUNICATIONS LAW JOURNAL 1–10 (December 2008).

27. *Toward a Unified Theory of Access to Local Telephone Networks*, 61 FEDERAL COMMUNICATIONS LAW JOURNAL 43–117 (December 2008) (with Daniel F. Spulber).

26. *Rethinking Broadband Internet Access*, 22 HARVARD JOURNAL OF LAW AND TECHNOLOGY 1–74 (Fall 2008) (with Daniel F. Spulber).
25. *Network Neutrality, Consumers, and Innovation*, 2008 UNIVERSITY OF CHICAGO LEGAL FORUM 179–262 (October 2008).
24. *Mandating Access to Telecom and the Internet: The Hidden Side of Trinko*, 107 COLUMBIA LAW REVIEW 1822–1907 (December 2007) (with Daniel F. Spulber).
23. *Is Open Source Software the New Lex Mercatoria?*, 47 VIRGINIA JOURNAL OF INTERNATIONAL LAW 807–836 (Summer 2007) (with Fabrizio Marrella).
22. *What Can Antitrust Contribute to the Network Neutrality Debate?*, 1 INTERNATIONAL JOURNAL OF COMMUNICATION 493–530 (August 2007).
21. *Keeping the Internet Neutral?: Tim Wu and Christopher Yoo Debate*, 59 FEDERAL COMMUNICATIONS LAW JOURNAL 575–592 (June 2007) (with Tim Wu).

Originally published online at LEGAL AFFAIRS: DEBATE CLUB (May 1–4, 2006), http://legalaffairs.org/webexclusive/debateclub_net-neutrality0506.msp.

Reprinted in PATRICIA L. BELLIA, PAUL SCHIFF BERMAN, & DAVID G. POST, CYBERLAW: PROBLEMS OF POLICY AND JURISPRUDENCE IN THE INFORMATION AGE 381–385 (3d ed., West Academic Publishing 2007).
20. *Copyright and Public Good Economics: A Misunderstood Relation*, 155 UNIVERSITY OF PENNSYLVANIA LAW REVIEW 635–715 (January 2007).

Reprinted in CRITICAL CONCEPTS IN INTELLECTUAL PROPERTY LAW: COPYRIGHT 216–296 (Christopher S. Yoo ed., Edward Elgar Publishing August 2011).
19. *Network Neutrality and the Economics of Congestion*, 94 GEORGETOWN LAW JOURNAL 1847–1908 (August 2006).
18. *Network Regulation: The Many Faces of Access*, 1 JOURNAL OF COMPETITION LAW AND ECONOMICS 635–678 (December 2005) (with Daniel F. Spulber).
17. *Beyond Network Neutrality*, 19 HARVARD JOURNAL OF LAW AND TECHNOLOGY 1–77 (Fall 2005).

Excerpted in GLEN O. ROBINSON & THOMAS B. NACHBAR, COMMUNICATIONS REGULATION 697–703 (2008).
16. *On the Regulation of Networks as Complex Systems: A Graph Theory Approach*, 99 NORTHWESTERN UNIVERSITY LAW REVIEW 1687–1724 (Summer 2005) (with Daniel F. Spulber).

15. *Architectural Censorship and the FCC*, 78 SOUTHERN CALIFORNIA LAW REVIEW 669–731 (March 2005).

Published with a response by C. Edwin Baker, *Media Structure, Ownership Policy, and the First Amendment*, 78 SOUTHERN CALIFORNIA LAW REVIEW 733–762 (March 2005).

Reprinted as *Architectural Censorship and the FCC*, REGULATION, Spring 2005, at 22–29.

Reprinted in FIRST AMENDMENT LAW HANDBOOK 639–87 (Rodney A. Smolla ed., 2005–2006 edition).

Reprinted in REGULATING AUDIOVISUAL SERVICES 327–389 (Thomas Gibbons ed., Ashgate 2009).
14. *The Unitary Executive in the Modern Era, 1945–2004*, 90 IOWA LAW REVIEW 601–731 (January 2005) (with Steven G. Calabresi & Anthony J. Colangelo).
13. *The Unitary Executive During the Third Half-Century, 1889–1945*, 80 NOTRE DAME LAW REVIEW 1–109 (November 2004) (with Steven G. Calabresi & Laurence D. Nee).
12. *Would Mandating Network Neutrality Help or Hurt Broadband Competition?: A Comment on the End-to-End Debate*, 3 JOURNAL ON TELECOMMUNICATIONS AND HIGH TECHNOLOGY LAW 23–68 (Fall 2004).

Published with a response by Tim Wu, *The Broadband Debate: A User’s Guide*, 3 JOURNAL ON TELECOMMUNICATIONS AND HIGH TECHNOLOGY LAW 69–95 (Fall 2004).
11. *Copyright and Product Differentiation*, 79 NEW YORK UNIVERSITY LAW REVIEW 212–280 (April 2004).

Reprinted in CRITICAL CONCEPTS IN INTELLECTUAL PROPERTY LAW: COPYRIGHT 147–215 (Christopher S. Yoo ed., Edward Elgar Publishing August 2011).
10. *The Role of Politics and Policy in Television Regulation*, 53 EMORY LAW JOURNAL 255–274 (Winter 2004).

Replying to Thomas W. Hazlett, *All Broadcast Regulation Politics Are Local: A Response to Christopher Yoo’s Model of Broadcast Regulation*, 53 EMORY LAW JOURNAL 233–253 (Winter 2004).
9. *New Models of Regulation and Interagency Governance*, 2003 MICHIGAN STATE-DCL LAW REVIEW 701–715 (Fall 2003).

8. *Rethinking the Commitment to Free, Local Television*, 52 EMORY LAW JOURNAL 1579–1717 (Fall 2003).
7. *The Unitary Executive During the Second Half-Century*, 26 HARVARD JOURNAL OF LAW AND PUBLIC POLICY 667–801 (Summer 2003) (with Steven G. Calabresi).
6. *Access to Networks: Economic and Constitutional Connections*, 88 CORNELL LAW REVIEW 885–1024 (May 2003) (with Daniel F. Spulber).
5. *The Rise and Demise of the Technology-Specific Approach to the First Amendment*, 91 GEORGETOWN LAW JOURNAL 245–356 (January 2003).
4. *Vertical Integration and Media Regulation in the New Economy*, 19 YALE JOURNAL ON REGULATION 171–300 (Winter 2002).
3. *Copyright and Democracy: A Cautionary Note*, 53 VANDERBILT LAW REVIEW 1933–1963 (November 2000).
2. *The Unitary Executive During the First Half-Century*, 47 CASE WESTERN RESERVE LAW REVIEW 1451–1561 (Summer 1997) (with Steven G. Calabresi).

Published with responses by Martin S. Flaherty, *Relearning Founding Lessons: The Removal Power and Joint Accountability*, 47 CASE WESTERN RESERVE LAW REVIEW 1563–1594 (Summer 1997); and Jonathan L. Entin, *Synecdoche and the Presidency: The Removal Power as Symbol*, 47 CASE WESTERN RESERVE LAW REVIEW 1595–1603 (Summer 1997).

1. Comment, *The Constitutionality of Enjoining Criminal Street Gangs as Public Nuisances*, 89 NORTHWESTERN UNIVERSITY LAW REVIEW 212–267 (Fall 1994).

Other Publications

Lowering Legal Barriers to RPKI Adoption, Report Submitted to the National Science Foundation, December 31, 2018) (with David Wishnick), available at <https://ssrn.com/abstract=3308619>.

The District Court's AT&T/Time Warner Decision: Insights into the Law of Vertical Integration, CPI ANTITRUST CHRONICLE, August 2018, <https://www.competitionpolicyinternational.com/the-district-courts-atttime-warner-decision-insights-into-the-law-of-vertical-integration/>.

Hipster Antitrust: New Bottles, Same Old W(h)ine?, CPI ANTITRUST CHRONICLE, April 2018, <https://www.competitionpolicyinternational.com/assets/Uploads/YooApr-2.pdf>.

- Bridges II: The Law–STEM Alliance & Next Generation Innovation*, 112 NORTHWESTERN UNIVERSITY LAW REVIEW ONLINE 173–76 (2018), https://scholarlycommons.law.northwestern.edu/cgi/viewcontent.cgi?article=1255&context=nulr_online.
- Reactions to the FCC’s Restoring Internet Freedom Draft Order*, PERSPECTIVES FROM FSF SCHOLARS, Dec. 4, 2017, http://www.freestatefoundation.org/images/Reactions_to_the_FCC_s_Restoring_Internet_Freedom_Draft_Order_120417.pdf (with Babette E. Boliek, Timothy J. Brennan, Michelle P. Connolly, Robert W. Crandall, Richard A. Epstein, Justin (Gus) Hurwitz, Daniel A. Lyons, James E. Prieger, and Christopher J. Walker).
- A Financial Assessment of Municipal Fiber in the U.S.*, PENN WHARTON PUBLIC POLICY INITIATIVE ISSUE BRIEF, May 2017 (with Timothy Pfenninger), <http://repository.upenn.edu/pennwhartonppi/45/>.
- Evidence-Based Research on Internet Connectivity: A Prerequisite for Effective Policymaking*, IEEE INTERNET POLICY LETTER, April 2017 (with Sharada Srinivasan), available at <http://internetinitiative.ieee.org/newsletter/march-2017/evidence-based-research-on-internet-connectivity-a-prerequisite-for-effective-policymaking>.
- The Fate of the FCC’s Privacy Rule: A Chat with Law Professor Christopher Yoo*, FORBES.COM (February 8, 2017), <https://www.forbes.com/sites/washingtonbytes/2017/02/09/the-fate-of-the-fccs-privacy-rule-a-chat-with-law-professor-christopher-yoo/#318019553180>.
- The Tools to Connect the Next Billion People to the Internet Have Been Hiding in Plain Sight*, QUARTZ (December 14, 2016), <https://qz.com/862854/internet-governance-forum-1-world-connected-is-using-tools-that-have-been-hiding-in-plain-sight-to-connect-the-next-billion-people-to-the-internet/>.
- Avoiding the Pitfalls of Mobile Fragmentation*, EURACTIV (Nov. 22, 2016), <https://www.euractive.com/section/digital/opinion/avoiding-the-pitfalls-of-mobile-fragmentation/>.
- Network Neutrality in an Increasingly Diverse World*, CPI ANTITRUST CHRON., Autumn 2016, <https://www.competitionpolicyinternational.com/network-neutrality-in-an-increasingly-diverse-world/>.
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- Webinar on *Meet the Author Series: Regulating the Cloud*, ASIS&T (September 14, 2016) (with Jean-François Blanchette), <https://www.asist.org/events/meet-the-author-series/regulating-the-cloud-policy-for-computing-infrastructure/>.

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HONORS, FELLOWSHIPS, GRANTS, AND AWARDS

“Legal Barriers to Securing the Routing Infrastructure,” NSF Early-concept Grants for Exploratory Research (EAGER) Program, Division of Computer and Network Systems, Directorate for Computer and Information Science and Engineering, National Science Foundation (September 2017–December 2018).

“Security and Privacy-Aware Cyber-Physical Systems,” NSF/Intel Partnership on Cyber-Physical Systems Security and Privacy, Division of Computer and Network Systems, Directorate for Computer and Information Science and Engineering, National Science Foundation (October 2015–September 2018).

Expert Dialog on “Ordnungsrahmen für die digitale Wirtschaft” (“Regulatory Framework for the Digital Economy”), Reference number: 1 C 4-16/15, Bundesministerium für Wirtschaft und Energie (BMWi) (Federal Ministry for Economics and Energy), Federal Republic of Germany (July 2015–July 2017).

“Future Trends of Internet Regulations,” Office of the National Broadcasting and Telecommunications Commission, Kingdom of Thailand (May 2015–April 2016).

“NEBULA: A Future Internet That Supports Trustworthy Cloud Computing,” Future Internet Architectures Program, Division of Computer and Network Systems, Directorate for Computer and Information Science and Engineering, National Science Foundation (August 2010–July 2013).

Cy Pres Award on Cloud Computing, New York Bar Foundation (December 2010–June 2013).

Research Project and Workshops on „Netzneutralität -Handlungsbedarf und -optionen des Staates“ (“Network neutrality and options for action by the state”), Reference number I C 4 - 34/11, Bundesministeriums für Wirtschaft und Technologie (BMW) (Federal Ministry for Economics and Technology), Federal Republic of Germany (June 2011–June 2012).

University of Pennsylvania China Research Engagement Fund Grant (2016–2019).

University of Pennsylvania Law School Summer Research Grant (summers 2007–2018).

Vanderbilt University Law School Summer Research Grant (summers 1999–2006).

Vanderbilt University Law and Business Research Grant (July 2002).

Fellow, Center for Communications Law and Policy, University of Southern California Law School (February 12–16, 2001).

OTHER PROFESSIONAL ACTIVITIES

Service to the University of Pennsylvania Law School: Dean’s Search Committee; Supreme Court Chair and Co-Chair, Clerkship Committee; Tenure and Promotions Committee; Nominations Committee; Educational Program Committee; Legal Education Programs, Faculty Advisor of the Asian Pacific American Law Students Association and the Penn Intellectual Property Group.

Service to the University of Pennsylvania: Provost’s Search Committee; University Council Committee on Honorary Degrees; Planning Committee for Workshop Series and Conference on “The New Media, Democracy, and Citizenship,” Penn Program on Democracy and Citizenship.

Service to Vanderbilt University: Clerkship Advisor; Curriculum Committee; Graduate Program Committee; Student-Faculty Relations Committee; Faculty Sponsor of the Asian Pacific American Law Students Association, INSAAF (South Asian Law Students Association), and Antitrust Society.

Member, Broadband Deployment Advisory Committee, Federal Communications Commission (2017–present).

Member, American Law Institute (elected October 20, 2011). Board of Advisers, Restatement Third, Information Privacy Principles (2012–present); Board of Advisers, Restatement Third, Principles for a Data Economy (2018–present).

Co-Convener, Connecting and Enabling the Next Billions, United Nations Internet Governance Forum (2017–present),

Adviser, Global Project on Mobile Use, Pew Research Center (2017–present).

Steering Committee and Project Lead for the Data Working Group, Internet for All, World Economic Forum (2016–present).

Lead for Evidence-Based Research, Internet Inclusion Advancing Solutions, IEEE (2016–present).

Organizer, 1 World Connected (2016–present).

Co-Convener, Dynamic Coalition on Innovative Approaches to Connecting the Unconnected, Internet Governance Forum (2016–present).

Research Fellow, Mannheim Centre for Competition and Innovation (2017–present).

Advisory Board, Law and Technology Centre, Hong Kong University Faculty of Law (2017–present).

Member, Cisco Security Research Advisory Board (2017–present).

Senior Fellow, Centre for International Governance Innovation (2014–present).

Inaugural CITI Fellow, Columbia Institute for Tele-Information, Columbia Business School (2012–present).

Advisory Board, Center for Economics of the Internet, Hudson Institute (2011–present).

Fellow, Center for Global Communications (GLOCOM), International University of Japan (2009–present).

Editorial Board, *Telecommunications Policy* (2018–present).

Editorial Committee, *Latin American Journal of Digital Economy* (2017–present).

Editorial Board, Harvard Papers on Technology Science (H-POTS) (2015–present).

Editorial Board, *International Telecommunications Policy Review* (2014–present).

Editorial Board, *Communications and Convergence Review* (2009–present).

Board of Academic Advisors, Free State Foundation (2008–present).

Member, Research Advisory Network, Global Commission Internet Governance (2014–2016).

Advisory Council, Program on Global Internet Freedom, Media Institute (2014–2016).

Program Committee, 33rd, 34th, and 35th Annual Telecommunications Policy Research Conference (2004–2007).

Referee for the MIT Press; University of Chicago Press; *Yale Law Journal*; *Harvard Law Review*; *Stanford Law Review*; *University of Pennsylvania Law Review*; *Journal of Law & Economics*; *Journal of Law, Economics & Organization*; *International Review of Law and Economics*; *Jurimetrics*; *Law and Social Inquiry*; *Law and Society Review*; *Communications of the ACM*; *IEEE Communications*; and *Telecommunications Policy*.

Media commentator for *The NewsHour with Jim Lehrer*, *New York Times*, *Washington Post*, *Wall Street Journal*, *Christian Science Monitor*, *Chicago Tribune*, *Los Angeles Times*, *Philadelphia Inquirer*, *All Things Considered* (National Public Radio), *Reuters News Service*, *Voice of America*, *CBS MarketWatch*, *Forbes.com*, *Chronicle of Higher Education*, *CIO Magazine*, *CED Magazine*, *Popular Science*, *Legal Times*.

Admitted to practice in the District of Columbia, Illinois, Supreme Court of the United States, United States Court of Appeals for the District of Columbia Circuit, and the United States Court of Appeals for the Federal Circuit.

PRESENTATIONS

Selected Testimony and Presentations Before Governmental Agencies and Organizations

Panel Discussion on *Vertical Mergers in the Technology, Media and Telecom Sector*, Best Practice Roundtable on Competition Policy, Competition Committee, Directorate for Financial Enterprise Affairs, Organization for Economic Co-Operation and Development, Paris, France (June 7, 2019).

Transparency and Procedural Fairness, 129th Meeting of Working Party No. 3 on Co-operation and Enforcement, Competition Committee, Directorate for Financial Enterprise Affairs, Organization for Economic Co-Operation and Development, Paris, France (June 6, 2019).

Panel on *Implications of Different Legal Traditions and Regimes for International Cooperation*, *Hearings on Competition and Consumer Protection in the 21st Century Before the U.S. Federal Trade Commission*, Washington, D.C. (March 26, 2019).

Panel on *Evolving Markets and Technological Developments: Policy Applications*, *Hearings on Competition and Consumer Protection in the 21st Century Before the U.S. Federal Trade Commission*, Washington, D.C. (March 20, 2019).

The State of Competition in the Wireless Market: Examining the Impact of the Proposed Merger of T-Mobile and Sprint on Consumers, Workers, and the Internet: Hearing Before the Subcommittee on Antitrust, Commercial and Administrative Law, U.S. House Committee on the Judiciary, 116th Congress, Washington, D.C. (March 12, 2019).

Panel on *Anti-Monopoly and Anti-Unfair Competition in the Context of the New Economy - A Round Table Centered on the Digital Economy*, International Seminar on Intellectual Property, Standards and Anti-Monopoly Law (“IPSAML”) – China’s Competition Policy in the New Economy: The Retrospect and Prospect of the 10th Anniversary of the Anti-Monopoly Law Enforcement and the Third Anniversary of the Competition Policy Research’s Publication, hosted by: National Industrial Information Security Development Research Center of the Chinese Ministry of Industry and Information Technology, organized by China Electronics Industry Standardization Technology Association Intellectual Property Working Committee, Beijing, China (October 26, 2018).

Panel on *Competition Enforcement and Economic Analysis in Digital Economy*, 6th China Competition Policy Annual Forum on “Competition Policy in A New Era— Retrospect and Prospect of A Decade of the Anti-monopoly Law Enforcement in China,” hosted by the Expert Advisory Committee of the Anti-Monopoly Commission, State Council of China, and organized by the Competition Law Center, University of International Business and Economics, Beijing, China (August 1, 2018).

Public Roundtable on Anticompetitive Effects of Regulation, Antitrust Division, U.S. Department of Justice, Washington, D.C. (May 31, 2018).

Briefing on Ad Tech, Online Consumer Data Collection and Consumer Privacy in the Age of Algorithms, Center for Technology, Innovation and Competition, University of Pennsylvania Law School, U.S. Senate Committee on Commerce, Science, and Transportation Hearing Room, Washington, D.C. (May 7, 2018).

Briefing on Ad Tech, Online Consumer Data Collection and Consumer Privacy in the Age of Algorithms, Center for Technology, Innovation and Competition, University of Pennsylvania Law School, U.S. House of Representatives Committee on Energy and Commerce Hearing Room, Washington, D.C. (May 7, 2018).

Panel on *Law 2050: Technology and the Future of Law*, Mid-Career Seminar for U.S. Court of Appeals Judges, Federal Judicial Center, Philadelphia, Pennsylvania (April 18, 2018).

Non-Governmental Advisor, Annual Meeting 2018, International Competition Network, Competition Commission of India, New Delhi, India (March 20–22, 2018).

Antitrust and Platforms, 6th China Competition Policy Forum on “Competition Policy in the Context of Economic Globalization,” commissioned by the Expert Advisory Committee of the Anti-Monopoly Commission, State Council of China, and hosted by the Center for Competition Law and Policy, Shanghai Jiao Tong University, Shanghai, China (August 31, 2017).

Panel on *Back to the Future: Net Neutrality – Where We’re Going, We Don’t Need . . . Regulations (or Do We?)*, NARUC Summer Policy Summit, National Association of Regulatory Utility Commissioners, San Diego, California (July 18, 2017).

Municipal Fiber in the United States: An Empirical Assessment of Financial Performance, Transportation and Communications Committee, 85th Annual Meeting of the U.S. Conference of Mayors, Miami, Florida (June 24, 2017).

Municipal Fiber in the United States: An Empirical Assessment of Financial Performance, Information Technology & Communications Federal Advocacy Committee, National League of Cities Summer Board and Leadership Meeting, Cleveland, Ohio (June 20, 2017).

Conference on “Towards a Digital Single Market: Competition Law Has Parts to Play,” co-organized by the Association of European Competition Law Judges, the European Commission, and the Austrian Judiciary, Vienna, Austria (June 9, 2017).

Workshop on “Competition Policies in the Digital Era,” Research Institute of Economy, Trade and Industry, Tokyo, Japan (March 7, 2017).

Meeting on *Broadband Competition and the Role of the Federal Communications Commission*, cosponsored by the National Academies of Sciences, Engineering, and Medicine and the General Accountability Office, Washington, D.C. (February 23, 2017).

Seminar on *Open Source and the Relevant Regulation*, cosponsored by the Open Innovation Network, Electronic Intellectual Property Center of the Chinese Ministry of Industry and Information Technology, and the University of International Business and Economics, Beijing, China (November 29, 2016).

Session on *NexGen Internet: IMT 2020, White Spaces, Solar Planes and Loon – Can India Become the Republic of Technologies?*, India Telecom 2016: 9th International Conference on ICT & Digital Technology, jointly organized by the Department of Telecommunications, Ministry of Communications, Government of India, and the Federation of Indian Chambers of Commerce and Industry (FICCI), New Delhi, India (November 1, 2016).

Case Studies on Broadband Deployment and Adoption, ITU-Intel Forum on Digital Transformation, Rabat, Morocco (November 9, 2016).

Panel on *The Application of Competition Rules in Internet Industry*, 5th China Competition Policy Annual Forum on “Implementation of Competition Policy in Supply-Side Structural Reform,” hosted by the Expert Advisory Committee of the Anti-Monopoly Commission, State Council of China, and organized by the Competition Law Center, University of International Business and Economics, Beijing, China (October 27, 2016).

Competition Law in the Information Economy, Competition Policy Research Centre, Japan Fair Trade Commission, Tokyo, Japan (August 19, 2016).

Training Project on *Communications and Digital Economy: Conceptual Framework and International Practices*, cosponsored by Thammasat University and the National Broadcasting and Telecommunications Commission of Thailand, Bangkok, Thailand (July 11–15, 2016).

Seminar on *The Future of Internet Regulation*, National Broadcasting and Telecommunications Commission, Bangkok, Thailand (May 3–4, 2016).

Briefing on *Empirical Studies of U.S. vs. European Broadband Coverage and Municipal Fiber in the U.S.*, Ofcom, London, United Kingdom (December 1, 2015).

Briefing on Policies for Promoting Broadband Deployment, United States Mission to the European Union, Brussels, Belgium (May 8, 2015).

Panel on “The FCC’s Open Internet Proposals, Section 706, the Communications Act, and the Role of the States,” Federal-State Joint Conference on Advanced Services, California Public Utility Commission, San Francisco, California (November 19, 2014).

U.S. vs. European Broadband Deployment: What Do the Data Say?, Thought Leaders Speaker Series, California Public Utility Commission, San Francisco, California (October 2, 2014).

Discussant, Roundtable on *Policy Approaches to Ensure an Open Internet*, Federal Communications Commission, Washington, D.C. (September 16, 2014).

Examining the Comcast-Time Warner Cable Merger and the Impact on Consumers: Hearing Before the U.S. Senate Committee on the Judiciary, 113th Congress, Washington, D.C. (April 9, 2014).

The FTC at 100: Views from the Academic Experts: Hearing Before the Subcommittee on Commerce, Manufacturing, and Trade of the U.S. House Committee on Energy and Commerce, 113th Congress, Washington, D.C. (February 28, 2014).

Keynote Address on *Net Neutrality – The US Perspective* and Panel Discussion on *Netzneutralität im internationalen Kontext (Net Neutrality in the International Context)*, Workshop on „Netzneutralität in der internationalen Debatte“ (“Net Neutrality in the International Debate”), Bundesministeriums für Wirtschaft und Technologie (BMWi) (Federal Ministry for Economics and Technology), Berlin, Germany (November 27, 2012).

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Consumers, Competition, and the Consolidation in the Video and Broadband Market: Hearing Before the U.S. Senate Committee on Commerce, Science, and Transportation, 111th Congress, Washington, D.C. (March 11, 2010).

Innovation, Investment, and the Open Internet: Workshop Before the Federal Communications Commission, Massachusetts Institute of Technology Media Lab, Cambridge, Massachusetts (January 13, 2010).

Piracy of Live Sports Broadcasting Over the Internet: Hearing Before the U.S. House Committee on the Judiciary, 111th Congress, Washington, D.C. (December 16, 2009).

The Internet Freedom Preservation Act of 2008: Hearing on H.R. 5353 Before the Subcommittee on Telecommunications and the Internet of the U.S. House Committee on Energy and Commerce, 110th Congress, Washington, D.C. (May 6, 2008).

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Broadband Connectivity Competition Policy: Public Workshop Before the Federal Trade Commission, Washington, D.C. (February 14, 2007).

Media Ownership: Hearing Before the U.S. Federal Communications Commission, Belmont University, Nashville, Tennessee (December 11, 2006).

Presidential Signing Statements: Hearing Before the U.S. Senate Committee on the Judiciary, 109th Congress, Washington, D.C. 22–24, 29–30, 32–34, 36–37, 85–94, 247–58 (June 27, 2006).

Nomination of John G. Roberts., Jr., as Chief Justice of the United States: Confirmation Hearing Before the U.S. Senate Committee on the Judiciary, 109th Congress, Washington, D.C. 518–20, 1437–40 (September 15, 2005).

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